

WHAT IS CLAIMED IS:

1. A suspension and steering system for a wheeled vehicle having a frame suspended above a beam-type straight axle, said system comprising:

5 a pair of upper suspension arms and a pair of lower suspension arms, each of the lower suspension arms being coupled at an inner end to said axle and at an outer end to said frame;

at least one of said pairs of suspension arms being attached to said frame at outer ends thereof and angled inwardly to a point where the inner ends are adjacent to one another;

10 a mounting plate attached to the axle for coupling to said at least one pair of suspension arms;

a steering bellcrank pivotably mounted to said mounting plate for rotation about a central pivot axis in steering said vehicle; and

15 means for mounting the inner ends of said at least one pair of suspension arms adjacent said central pivot axis of said steering bellcrank.

2. The suspension and steering system of claim 1 wherein said at least one pair of suspension arms are joined together at their inward ends to form a wishbone shape, the inward ends of which are mounted on the central pivot axis of said steering bellcrank.

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3. The suspension and steering system of claim 1 wherein at least one pair of suspension arms are angled inwardly and attached to said mounting plate at points adjacent to said central pivot axis.

4. The suspension and steering system of claim 1 further including a steering idler coupled between a steering box pitman arm and the steering bellcrank for causing said steering bellcrank to rotate about its pivot axis during steering of the vehicle.

5 5. The suspension and steering system of claim 2 wherein said wishbone is coupled to said mounting plate at the central pivot axis for rotation thereabout.

6. The suspension and steering system of claim 1 further including a steering drag link coupled between the steering idler and the steering bellcrank for converting movement of the pitman arm to rotation of said steering bellcrank about its pivot axis.

7. The suspension and steering system of claim 1 wherein said at least one pair of suspension arms form a wishbone whose outer ends are attached to the frame and the remaining pair of suspension arms are coupled from the axle to the frame on the underside of the axle.

8. The suspension and steering system of claim 1 wherein said at least one pair of suspension arms are attached to the frame at outer ends of said suspension arms and are attached to said mounting plate at points closely adjacent the central pivot axis of the steering bellcrank.

9. In a wheeled vehicle having a frame suspended above a beam-type straight axle, a suspension and steering system comprising:

a pair of independent suspension arms connected to and extending between the frame and a coincident, single suspension link;

a steering idler member coupled between a steering box pitman arm and a steering bellcrank;

a steering link, extending from and connecting the pitman arm of the steering box to said steering idler member;

a steering drag link, extending from and connecting the steering idler member to said steering bellcrank;

and tie rods extending from and connecting the steering bellcrank to each steering knuckle.

10. A vehicle suspension and steering system for use in conjunction with a wheeled vehicle having a frame supported above a beam-type straight axle, said suspension and steering linkage system comprising:

upper and lower suspension arms connected by pairs between the frame and the axle to permit vertical movement of the axle relative to the frame;

a mounting plate attached to said axle;

10 a steering bellcrank coupled to said mounting plate at a
central pivot axis;

means joining the inner ends of said upper suspension
arms together at said pivot axis;

a steering idler member mounted to convert movement of a
steering box pitman arm to rotation of said bellcrank; and

15 a steering drag link extending from said steering idler
member to said steering bellcrank to cause rotation of said
steering bellcrank as the vehicle is steered.